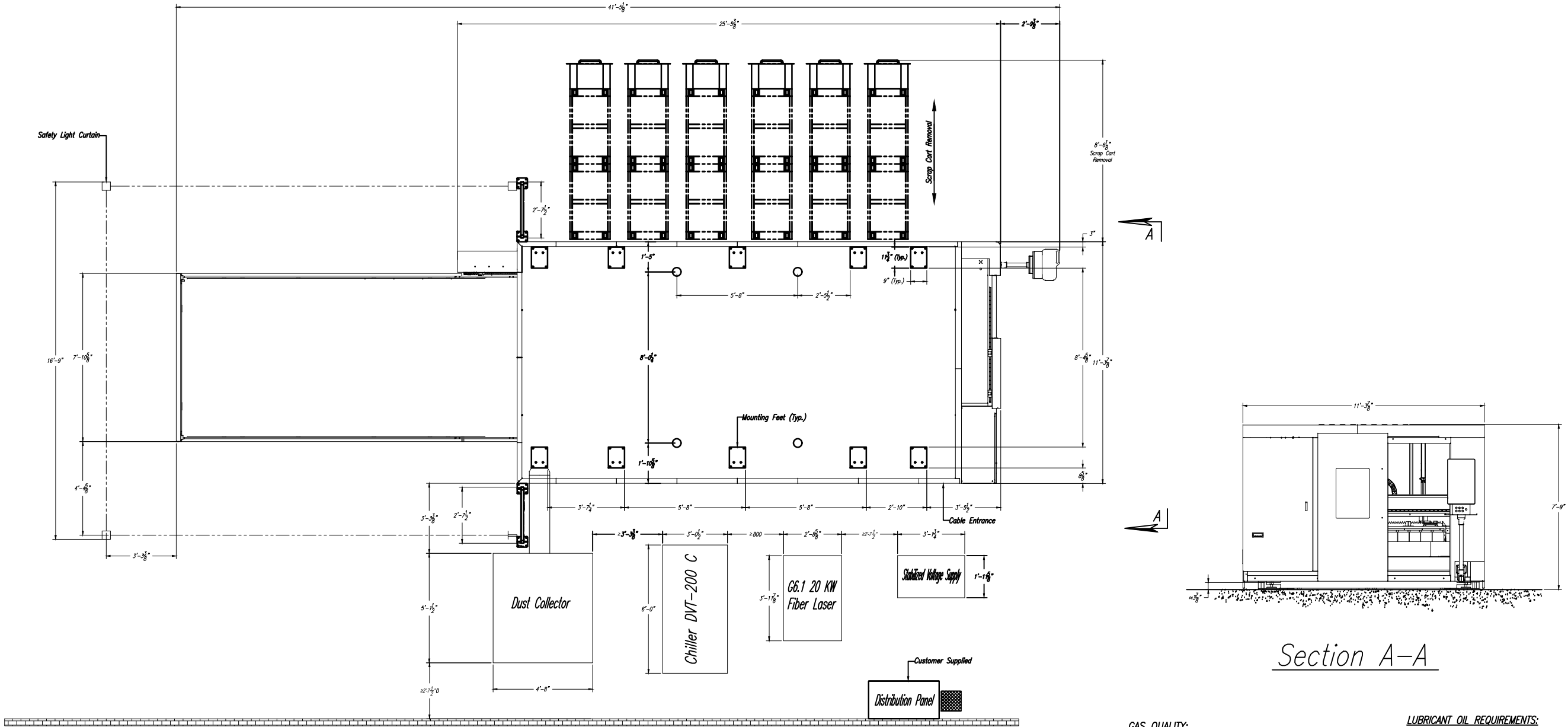




Introduction:

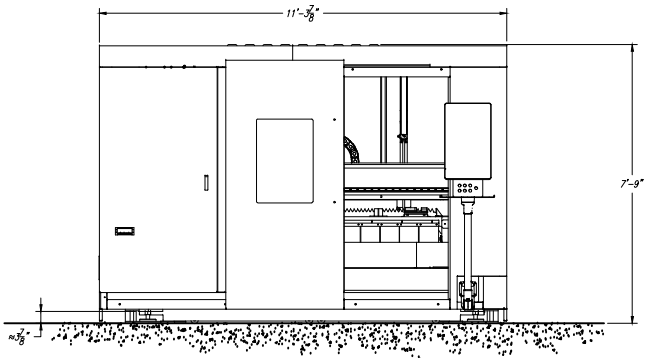
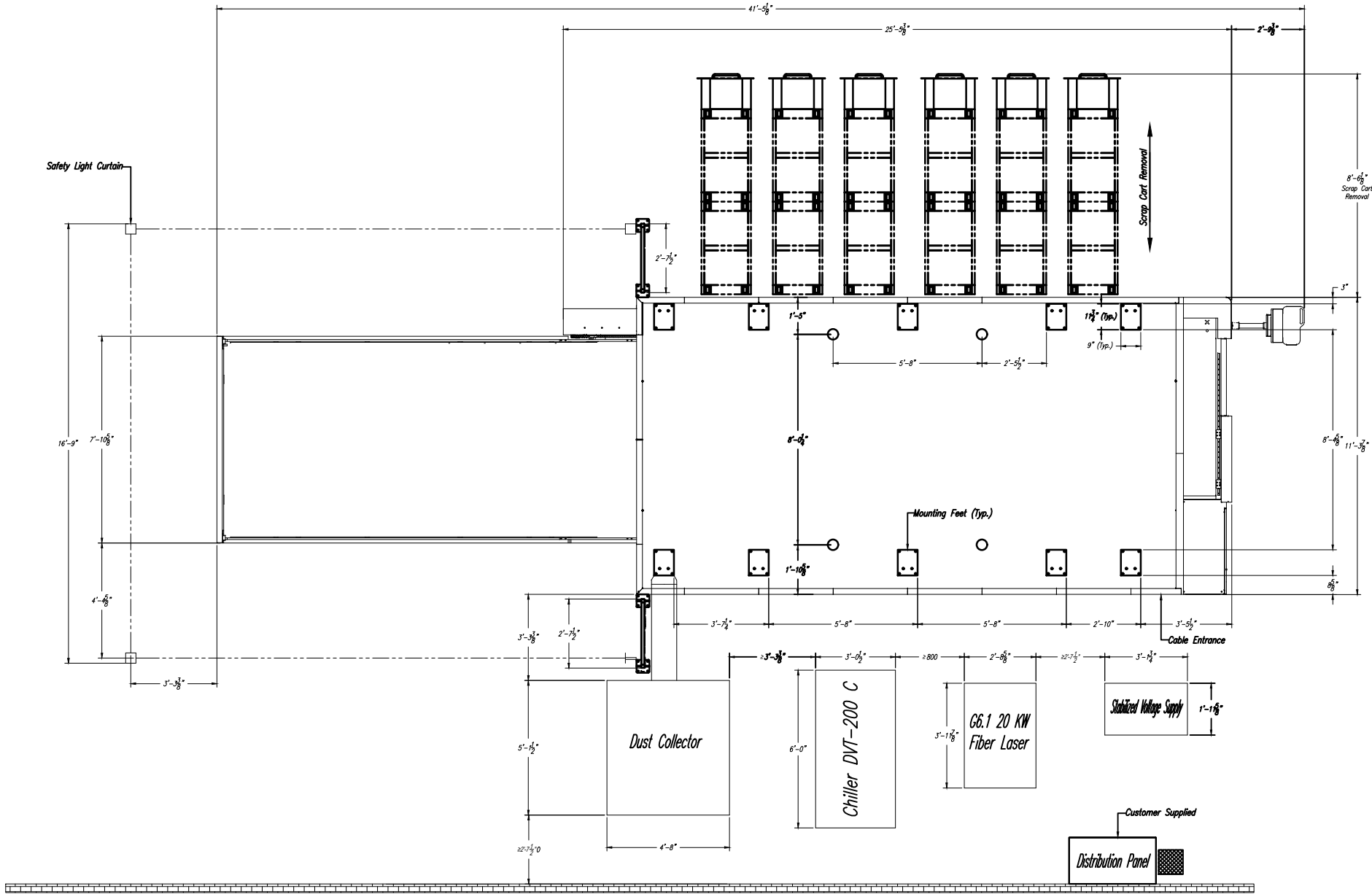
- 1.Industrial earthing can be adopted for the construction of laser cutting machine (in case ground earthing network is not provided around the workshop), earthing resistance shall be <4Ω.
- 2.The ground bearing pressure should be at least 17400kg/m2,The flat level of horizontal ground shall be <20mm.
- 3.Requirement of laser working environment: temperature shall be between 10~40℃, relevant humidity shall be between 10%~85%,to aviod condensation during laser working.
- 4.It is recommended that air-compressor equipment and fan shall be placed outside the room.
- 5.It is recommended that water outlet is installed nearby the chiller as it is convenient for the cleaning of chiller.
- 6.The requirements of power supply of equipment: equipped with the control loop of separate protection function, and shall be leaded to the area nearby AC stabilized electric power source. Earth terminal (with size 300×100×10)
- 7.If there is a vibration source near the machine , the maximum amplitude of vibration is Horizontal≤0.01mm,Vertical≤0.05mm (From peak to peak for frequencies below 15 Hz.Amplitude cannot increase to more than 10 dB per frequency decade if values are higher than 15Hz) .

<u>GAS QUALITY:</u>		<u>LUBRICANT OIL REQUIREMENTS:</u>	
O2	99.995% PURE, Clean, Dry, Oil-Free	Tellus S2V 32, 48, 68 Filling Capacity:10L	
N2	99.99% PURE, Clean, water free, Oil-Free and oxygen free (H2O ≤100Vpm, CnHm ≤1Vpm, O2≤5Vpm)	Noted: Any of the three can be used. Once a specific type is determined, there is no need to replace it later.	
AIR	Clean, Dry, Oil-Free	Used For Gear, Rack and Slider	
<u>REQUIRED FLOW RATES & INLET PRESSURES</u>		<u>HYDRAULIC OIL STATION:</u>	
OXYGEN	0-145 psi AT 49 cfm	Tellus S2 VX32 L-HS32	
NITROGEN	0-365 psi AT 170 cfm	Filling Capacity:70L	
AIR Cutting	220 psi AT 74 cfm	Noted: Anti-wear hydraulic oil (Ultra-low temperature)	

- Peddilaser Plate 12 KW NOTES:
- 1.) **Primary 480 V., 3 Ph., 60 Hz. [Req'd @ each ■]**
Total K.V.A. for Peddilaser Swing VII (With Air Compressor & Air Dryer) = 116.08 K.V.A. (Distribution Panel)
Total K.V.A. for Peddilaser Swing VII (Less Air Compressor & Air Dryer)= 87.87 K.V.A. (Distribution Panel)
Total K.V.A. for Stabilizer = 80 K.V.A. (100 Amp Circuit Breaker)
Total K.V.A. for Chiller = 19.81 K.V.A. (32 Amp Circuit Breaker)
Total K.V.A. for Dust Collector = 9.82 K.V.A. (25 Amp Circuit Breaker)
Total K.V.A. for Air Compressor & Dryer (If Purchased) = 28.21 K.V.A. (50 Amp Circuit Breaker)
The customer must provide power to all five of the above-listed items. through a distribution panel.
 - 2.) **Air Requirement (Machine Only): 120 PSIG. not less than 32 SCFM Min. Free Air**
 - 3.) **Cooling Water (DI Water): Deionized, demineralized, or distilled water {53 Gal. Total}**

Note: This is a standard layout drawing. The actual dimensions of the auxiliary equipment may vary based on updated designs, as well as differences in brand, model, and other factors.

E				Peddinghaus Corp. BRADLEY, ILL. U.S.A. PeddiLaser Plate Swing VII Pro 4020 For		IMPORTANT Safety Note!		
D						Because of the difficulty to effectively guard the full length of the system it is the customers responsibility to prevent access by unauthorized personnel and to provide safe crossing.		
C						DRAWN BY: <i>G. Carpenter</i>	SCALE: 1/2" = 1'	DATE: 5-21-26
B								
A								
LET.	REVISION/C.N.#	BY	DATE	THIS PRINT IS THE PROPERTY OF PEDDINGHAUS CORP. AND IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF SAID COMPANY		DRWG. NO.		



Section A-A

<u>GAS QUALITY:</u>		<u>LUBRICANT OIL REQUIREMENTS:</u>	
O2	99.995% PURE, Clean, Dry, Oil-Free	Tellus S2V 32, 48, 68 Filling Capacity:10L	
N2	99.99% PURE, Clean, water free, Oil-Free and oxygen free (H2O ≤100Vpm, CnHm ≤1Vpm, O2≤5Vpm)	Noted: Any of the three can be used. Once a specific type is determined, there is no need to replace it later.	
AIR	Clean, Dry, Oil-Free	Used For Gear, Rack and Slider	
<u>REQUIRED FLOW RATES & INLET PRESSURES</u>		<u>HYDRAULIC OIL STATION:</u>	
OXYGEN	0-145 psi AT 49 cfm	Tellus S2 VX32 L-HS32	
NITROGEN	0-365 psi AT 170 cfm	Filling Capacity:70L	
AIR Cutting	220 psi AT 102 cfm	Noted: Anti-wear hydraulic oil (Ultra-low temperature)	

PeddiLaser Plate 20 KW NOTES:

- 1.) Primary 480 V., 3 Ph., 60 Hz. [Req'd @ each ■]
Total K.V.A. for Peddilaser Swing VII (With Air Compressor & Air Dryer) = 179.52 K.V.A. (Distribution Panel)
Total K.V.A. for Peddilaser Swing VII (Less Air Compressor & Air Dryer)= 132.08 K.V.A. (Distribution Panel)
Total K.V.A. for Stabilizer = 120 K.V.A. (150 Amp Circuit Breaker)
Total K.V.A. for Chiller = 24.63 K.V.A. (50 Amp Circuit Breaker)
Total K.V.A. for Dust Collector = 9.62 K.V.A. (25 Amp Circuit Breaker)
Total K.V.A. for Air Compressor (If Purchased) = 47.44 K.V.A. (80 Amp Circuit Breaker)
Total K.V.A. for Air Dryer (If Purchased) = 3.85 K.V.A. (16 Amp Circuit Breaker)
The customer must provide power to all five of the above-listed items. through a distribution panel.
- 2.) Air Requirement (Machine Only): 120 PSIG, not less than 32 SCFM Min. Free Air
- 3.) Cooling Water (DI Water): Deionized, demineralized, or distilled water {53 Gal. Total}

Note: This is a standard layout drawing. The actual dimensions of the auxiliary equipment may vary based on updated designs, as well as differences in brand, model, and other factors.

Introduction:

- 1.Industrial earthing can be adopted for the construction of laser cutting machine (in case ground earthing network is not provided around the workshop), earthing resistance shall be <4Ω.
- 2.The ground bearing pressure should be at least 17400kg/m2,The flat level of horizontal ground shall be <20mm.
- 3.Requirement of laser working environment: temperature shall be between 10~40℃, relevant humidity shall be between 10%~85%,to avoid condensation during laser working.
- 4.It is recommended that air-compressor equipment and fan shall be placed outside the room.
- 5.It is recommended that water outlet is installed nearby the chiller as it is convenient for the cleaning of chiller.
- 6.The requirements of power supply of equipment: equipped with the control loop of separate protection function, and shall be leaded to the area nearby AC stabilized electric power source. Earth terminal (with size 300×100×10)
- 7.If there is a vibration source near the machine , the maximum amplitude of vibration is Horizontal≤0.01mm,Vertical≤0.05mm (From peak to peak for frequencies below 15 Hz.Amplitude cannot increase to more than 10 dB per frequency decade if values are higher than 15Hz) .

E				Peddinghaus Corp. BRADLEY, ILL. U.S.A. PeddiLaser Plate Swing VII Pro 4020 For	IMPORTANT Safety Note! Because of the difficulty to effectively guard the full length of the system it is the customers responsibility to prevent access by unauthorized personnel and to provide safe crossing. DRAWN BY: SCALE: 1/2" = 1' DATE: 7-23-26 <i>G. Carpenter</i> DRWG. NO.
D					
C					
B					
A					
LET.	REVISION/C.N.#	BY	DATE	THIS PRINT IS THE PROPERTY OF PEDDINGHAUS CORP. AND IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO THE INTERESTS OF SAID COMPANY	